



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6

1445 ROSS AVENUE, SUITE 1200  
DALLAS, TEXAS 75202-2733

October 24, 2013

VIA FOIAonline

Mike Grant  
Sandia Technologies, LLC  
6731 Theall Road  
Houston, TX 77066

RE: Freedom of Information Act (FOIA) Request EPA-R6-2014-000275

Dear Mr. Grant:

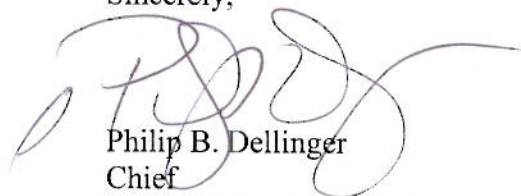
This letter concerns the above-referenced FOIA request, received by the U.S. Environmental Protection Agency on October 17, 2013, in which you requested *information regarding Merisol Channelview Petition Reinsurance*.

EPA Region 6 has concluded its search for records responsive to your request and uploaded those records to the FOIA Online System. You will soon receive an email from the FOIAOnline System notifying you that the records are available for your review and providing the direct link thereto. You may also access your FOIAOnline request details by clicking on the following link, or entering this URL into your internet browser:  
<https://foiaonline.regulations.gov/foia/action/public/view/request?objectId=090004d2800ae693>.

You may appeal this response to the National Freedom of Information Officer, U.S. EPA, FOIA and Privacy Branch, 1200 Pennsylvania Avenue, N.W. (2822T), Washington, DC 20460 (U.S. Postal Service Only), FAX: (202) 566-2147, E-mail: [hq.foia@epa.gov](mailto:hq.foia@epa.gov). Only items mailed through the United States Postal Service may be delivered to 1200 Pennsylvania Avenue, NW. If you are submitting your appeal via hand delivery, courier service or overnight delivery, you must address your correspondence to 1301 Constitution Avenue, N.W., Room 6416J, Washington, DC 20001. Your appeal must be made in writing, and it must be submitted no later than 30 calendar days from the date of this letter. The Agency will not consider appeals received after the 30 calendar day limit. The appeal letter should include the request tracking number listed above. For quickest possible handling, the appeal letter and its envelope should be marked "Freedom of Information Act Appeal."

This is a final response to your request, and you may receive a final billing (if appropriate) from the Regional FOIA Office. If you have any questions concerning this response, you may contact the Regional FOIA Officer, Leticia Lane, who can be reached at (214) 665-7202 or [lane.leticia@epa.gov](mailto:lane.leticia@epa.gov).

Sincerely,

A handwritten signature in purple ink, appearing to read 'P. Dellinger', with a large, sweeping flourish extending to the right.

Philip B. Dellinger  
Chief  
Ground Water/UIC Section



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 6  
1445 ROSS AVENUE, SUITE 1200  
DALLAS, TX 75202-2733

June 28, 2006

CERTIFIED MAIL 7000 0520 0022 2558 3601 RETURN RECEIPT REQUESTED

Mr. Randy Shilling  
SHESQ Manager  
MERISOL USA LLC  
1914 Haden Road  
Houston, TX 77015-6498

Re: Final Injection Well No Migration Exemption Reissuance Decision

Dear Mr. Shilling:

Effective the date of this letter, the Environmental Protection Agency (EPA) approves the reissuance request for MERISOL USA LLC (MERISOL) exemption to the land disposal restrictions for the two injection wells at the Greens Bayou Plant, Houston, Texas.

The land disposal restrictions prohibit the injection of hazardous waste unless a petitioner can demonstrate to the EPA, to a reasonable degree of certainty, that there will be no migration of hazardous constituents from the injection zone for as long as the wastes remain hazardous. The land disposal restrictions for injection wells codified in 40 CFR Part 148, provide the standards and procedures by which petitions to dispose of an otherwise prohibited waste by injection will be reviewed, and by which exemptions pursuant to these petitions will be granted or denied.

A letter dated May 4, 2006, informed MERISOL that the EPA was proposing to approve MERISOL's petition reissuance request for an exemption to the land disposal restrictions. The public comment period associated with this decision began on May 8, 2006, and closed on June 22, 2006. One comment was received identifying a typographical error in the specific gravity reference temperature listed in Petition Approval Condition No. 4. The specific gravity reference temperature has been corrected to 20 °C/20 °C.

Based on a detailed technical review of the submitted petition and support documents, the EPA has determined that this information for the MERISOL facility meets the requirements of 40 CFR Part 148 by demonstrating no migration of hazardous constituents from the injection zone for 10,000 years.



The following are conditions of this exemption to the land disposal restrictions:

Petition Reissuance Approval Conditions

This final approval to allow the continued injection of restricted hazardous wastes is subject to the following conditions, which are necessary to assure that the standard in 40 CFR §148.20(a) is met. The final petition for reissuance of exemption approval conditions were revised to reflect the changes represented by this 2006 reissuance. Noncompliance with any of these conditions is grounds for termination of the exemption in accordance with 40 CFR §148.24(a)(1). This final reissued exemption is applicable to the two existing injection wells, WDW-147 and WDW-319, located at the MERISOL, Greens Bayou Plant in Houston, Texas.

1. Injection of restricted waste shall be limited to the following injection zones:

<u>Well</u>	<u>Depth of Injection Zone</u>
WDW-147	5135' - 7410' KB 8/27/78 ISF/Sonic Log
WDW-319	5134' - 7410' KB 8/31/2000 Induction Log

The injection interval shall be defined by the following correlative log depths:

<u>Well</u>	<u>Injection Interval</u>	<u>Depth of Injection Interval</u>
WDW-147	Frio E-F Sand	6564' - 6816' KB
	Frio A/B/C Sands	6826' - 7286' KB
(Depths referenced to WDW-147 8/27/78 ISF/Sonic Log)		
WDW-319	Frio E-F Sand	6580' - 6821' KB
	Frio A/B/C Sands	6830' - 7290' KB
(Depths referenced to WDW-319 8/31/2000 Induction Log)		

2. The volume injected into each injection interval during any given month shall not exceed that calculated by multiplying (injection rate, gpm)(1440 minutes/day)(number of days in that month) based on the following maximum cumulative rate limits:

<u>Injection Interval</u>	<u>Maximum Cumulative Injection Rate</u>
Frio E-F sands	750 gpm
Commingled Frio A/B/C sands	750 gpm

Additionally, the cumulative injection volume of waste with a volume weighted monthly average specific gravity less than 1.091 at 20 °C/20 °C is limited to 3.945 billion gallons. This volume will be tracked by MERISOL and reported annually to EPA Region 6.

3. The facility shall cease injection by December 31, 2020.
4. The characteristics of the injected waste stream shall at all times conform to those described in the 2000 request for petition reissuance. The specific gravity of the injected



waste shall be based on a three-whole calendar month volume weighted average specific gravity range of 1.000 to 1.200 at 20 °C/20 °C. The three-month average shall be calculated by multiplying each day's specific gravity value by that day's injected volume, totaling those values for the previous three-whole calendar month period, and dividing by that three-month injected volume. Each day's specific gravity value shall be obtained by at least one representative grab sample.

5. The final approval for injection is limited to the following hazardous wastes:

D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D011, D012, D013, D014, D015, D016, D017, D018, D019, D020, D021, D022, D023, D024, D025, D026, D027, D028, D029, D030, D031, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043

F001, F002, F003, F004, F005, F006, F007, F008, F009, F010, F011, F012, F019, F020, F021, F022, F023, F024, F025, F026, F027, F028, F032, F034, F035, F037, F038, F039

K001, K002, K003, K004, K005, K006, K007, K008, K009, K010, K011, K013, K014, K015, K016, K017, K018, K019, K020, K021, K022, K023, K024, K025, K026, K027, K028, K029, K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041, K042, K043, K044, K045, K046, K047, K048, K049, K050, K051, K052, K060, K061, K062, K069, K071, K073, K083, K084, K085, K086, K087, K088, K093, K094, K095, K096, K097, K098, K099, K100, K101, K102, K103, K104, K105, K106, K107, K108, K109, K110, K111, K112, K113, K114, K115, K116, K117, K118, K123, K124, K125, K126, K131, K132, K136, K141, K142, K143, K144, K145, K147, K148, K149, K150, K151, K156, K157, K158, K159, K161, K169, K170, K171, K172, K174, K175, K176, K177, K178, K181

P001, P002, P003, P004, P005, P006, P007, P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P020, P021, P022, P023, P024, P026, P027, P028, P029, P030, P031, P033, P034, P036, P037, P038, P039, P040, P041, P042, P043, P044, P045, P046, P047, P048, P049, P050, P051, P054, P056, P057, P058, P059, P060, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P077, P078, P081, P082, P084, P085, P087, P088, P089, P092, P093, P094, P095, P096, P097, P098, P099, P101, P102, P103, P104, P105, P106, P108, P109, P110, P111, P112, P113, P114, P115, P116, P118, P119, P120, P121, P122, P123, P127, P128, P185, P188, P189, P190, P191, P192, P194, P196, P197, P198, P199, P201, P202, P203, P204, P205

U001, U002, U003, U004, U005, U006, U007, U008, U009, U010, U011, U012, U014, U015, U016, U017, U018, U019, U020, U021, U022, U023, U024, U025, U026, U027, U028, U029, U030, U031, U032, U033, U034, U035, U036, U037, U038, U039, U041, U042, U043, U044, U045, U046, U047, U048, U049, U050, U051, U052, U053, U055, U056, U057, U058, U059, U060, U061, U062, U063, U064, U066, U067, U068, U069,



U070, U071, U072, U073, U074, U075, U076, U077, U078, U079, U080, U081, U082, U083, U084, U085, U086, U087, U088, U089, U090, U091, U092, U093, U094, U095, U096, U097, U098, U099, U101, U102, U103, U105, U106, U107, U108, U109, U110, U111, U112, U113, U114, U115, U116, U117, U118, U119, U120, U121, U122, U123, U124, U125, U126, U127, U128, U129, U130, U131, U132, U133, U134, U135, U136, U137, U138, U140, U141, U142, U143, U144, U145, U146, U147, U148, U149, U150, U151, U152, U153, U154, U155, U156, U157, U158, U159, U160, U161, U162, U163, U164, U165, U166, U167, U168, U169, U170, U171, U172, U173, U174, U176, U177, U178, U179, U180, U181, U182, U183, U184, U185, U186, U187, U188, U189, U190, U191, U192, U193, U194, U196, U197, U200, U201, U202, U203, U204, U205, U206, U207, U208, U209, U210, U211, U213, U214, U215, U216, U217, U218, U219, U220, U221, U222, U223, U225, U226, U227, U228, U234, U235, U236, U237, U238, U239, U240, U243, U244, U246, U247, U248, U249, U271, U278, U279, U280, U328, U353, U359, U364, U367, U372, U373, U387, U389, U394, U395, U404, U409, U410, U411

6. The facility must petition for approval to inject additional hazardous wastes which are not included in Condition No. 5, above. The facility must also petition for approval to increase the concentration of any waste which would necessitate the recalculation of the limiting concentration reduction factor and the extent of the waste plume. Petition reissuance and modifications should be made pursuant to §148.20 (e) or (f).
7. MERISOL shall annually submit to EPA the results of a bottom hole pressure survey for WDW-147 and WDW-319. Each survey shall be performed after shutting in the well for a period of time sufficient to allow the pressure in the injection interval to reach equilibrium, in accordance with §146.68(e)(1). The annual report should include a comparison of reservoir parameters determined from the falloff test with parameters used in the approved no migration petition.
8. Upon the expiration, cancellation, reissuance, or modification of the Texas Commission on Environmental Quality's Underground Injection Control permit for Well Nos. WDW-147 and WDW-319, this exemption is subject to review. A new demonstration may be required if information shows that the basis for granting the exemption is no longer valid under 40 CFR §148.23 and §148.24.

In addition to the above conditions, this final approval is contingent on the validity of the information submitted in the MERISOL reissuance request for an exemption to the land disposal restrictions. Any final reissuance decision is subject to termination when any of the conditions occur which are listed in 40 CFR §148.24, including noncompliance, misrepresentation of relevant facts, or a determination that new information shows that the basis for approval is no longer valid.

If you have any questions or comments, please call Philip Dellinger at (214) 665-7165.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Miguel I. Flores". The signature is fluid and cursive, with the first name "Miguel" being more prominent.

Miguel I. Flores  
Director

Water Quality Protection Division

cc: Bob Smith, USEPA OGWDW  
Ben Knape, TCEQ  
Brad Genzer, TCEQ Region 14